

WHAT IS CLAIMED IS:

1. A pigment-based ink composition for inkjet printing the ink composition comprising pigment particles, wherein said ink composition has a filterability of at least 80% wherein filterability is determined by the following test; a sample of said pigment-based ink is divided into four 100 ml aliquots and a first aliquot is filtered through a chemically inert membrane having a porosity of 1.0 μm and a diameter of 47 mm and using a vacuum of 20 inches of Hg and measuring the time it takes to complete the filtration, T1, a second and third aliquot are sequentially passed through the same filter under the same filtering conditions, the fourth aliquot is then passed through the same filter under the same conditions while measuring the time it takes to complete the filtration of the fourth aliquot, T4, the time of T1 is divided by T4 and multiplied by 100 to obtain the filterability.
2. The pigment-based ink of claim 1 wherein said filterability is greater than 90%.
3. The pigment-based ink of claim 1 wherein said ink comprises a glycol ether at a concentration of between 2.5 and 7.5.
4. The pigment-based ink of claim 1 wherein the pigment particles comprise yellow pigment.
5. The pigment-based ink composition of claim 1 wherein the pigment particles comprise magenta pigment.
6. The pigment-based ink composition of claim 1 wherein said pigment particles comprise organic crystalline pigments.

7. The pigment-based ink composition of claim 1 wherein the pigment particles comprise cyan pigment.

8. The pigment-based ink composition of claim 1 wherein the pigment particles comprise black pigment.

9. The pigment-based ink composition of claim 1 wherein the mean particle size of said pigment particles is less than or equal to 0.3 micrometers.

10. The pigment-based ink composition of claim 1 wherein the mean particle size of said pigment particles is less than or equal to 0.1 micrometers.

11. The pigment-based ink composition of claim 1 wherein said ink composition further comprises water.

12. The pigment-based ink composition of claim 1 wherein said pigment particles comprise Pigment Yellow 155, Pigment Yellow 74, Pigment Yellow 180, Pigment Yellow 150, Pigment Yellow 97, or Pigment Yellow 128.

13. The pigment-based ink composition of claim 1 wherein said pigment particles comprise Pigment Red 122.

14. The pigment-based ink composition of claim 1 wherein said pigment particles comprise Pigment Blue 15:3 or Pigment Blue 15:4.

15. The pigment-based ink composition of claim 1 wherein said pigment particles comprise Pigment Black 7 or carbon black.

16. The pigment-based ink composition of claim 1 wherein said ink composition jets through a printhead having an orifice size of 25 micrometers for greater than 10 hours.

17. The pigment-based ink composition of claim 1 wherein said pigment particles comprise a bridged aluminum phthalocyanine pigment.

18. The pigment-based ink of claim 1 wherein said ink further comprises a water-dispersible polymer.

19. The pigment-based ink of claim 17 wherein said water-based polymer is present in an amount from between 0.5% and 5 % by weight of said ink.

20. The pigment-based ink of claim 11 wherein said pigment is present in an amount of between 0.5% and 6 % by weight of said ink.